

A PRELIMINARY LIST OF TIPULIDAE FROM BRITISH COLUMBIA (Diptera)

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Along with collections in all orders which I have made since coming to this province, for seven years I gathered all the Tipulidae I could find and in 1932 sent some 1130 specimens to Dr. C. P. Alexander, Massachusetts Agricultural College, Amherst, the world authority on these flies, who had very kindly agreed to identify them for me. Dr. Alexander informed me that he could not name many of them without referring to the types and since the types of some fifty western species were in Pulman and San Francisco and the institutions housing them could not send them to him, the identification of my material would have to wait until he could travel to inspect them; in the meantime, the collections are still in his possession. For several reasons, namely, ill-health, bereavement, teaching load and added duties during the war years, Dr. Alexander has not been able to resume the study of this material, but when he does, it will be possible to issue a more up-to-date list and, when the specimens are returned, the University will have a basic collection of these flies for reference purposes.

For the present therefore, I can submit only the following list of 84 species which up to June 1, 1933, have been recorded from all sources, including the Canadian National Collection. I am very grateful to Dr. Alexander for generously and laboriously compiling the list which is produced herewith as he sent it to me. It will be noted that only seven records bear my name and since most of the specimens in the collection were taken by me, it means that there must be great difficulty in placing British Columbia Tipulidae.

In view of the fact that over 700 species of this family have been recorded from the Province of Quebec alone, I feel that at least that number, if not more, will eventually be found in this Province which has a far greater climatic and vegetational variation than has Quebec.

CRANE-FLIES OF BRITISH COLUMBIA

(Based on identifications of collections of Dr. C. P. Alexander, Mr. H. B. Leech and others; also printed records.)

Family TANYDERIDAE

Protanyderus vipio (O.S.)

Cranbrook, Aug. 2, 1920; 1♀.

Family PTYCHOPTERIDAE

Ptychoptera tenuis (O.S.)

Hector, July 15, 1928 (Bryant). Salmon Arm, April 29, 1931; May 4, 1930 (Leech).

Bittacomorphella sackeni (Röder)

Queen Charlotte Islands. n.d. Stanley Park, Vancouver, flying beside stream, Sept. 3, 1930 (Leech).

Family TRICHO CERIDAE

Diazosma subsinuata Alex.

Vancouver, July, 1931 (Leech).

Paracladura trichoptera (O.S.)

Vancouver, Oct. 9, 1931 (Leech).

Trichocera columbiana Alex. (Can. Ent. 50: 70, 1927)

Prince Rupert, June 17, 1919 (Dyar). Victoria, March 28, 1916 (Treherne). Victoria, March 8, 1920 (W. B. Anderson). Metlakatla, Nov. 9, 1908 (J. H. Keen).

Trichocera garretti Alex. (Can. Ent. 59: 71-72; 1927)

Marysville, 5,500 ft., May 11, 1919 (Garrett). Lillooet, May 3, 1916 (Tom Wilson). Cranbrook, April 5, May 5, Oct. 21, Nov. 9 (Garrett). Salmon Arm, Feb. 12, 1932 (Leech); reared.

Family TIPULIDAE

Sub-family TIPULINAE

Ctenophora angustipennis Lw.

Agassiz, May 11, 1922 (R. Glendenning). Wellington, May 11, 1898. Victoria, April 24, 1904 (Hanham). (Vancouver Island Rec. Bergroth, Vien. Ent. Zeitg. 7: 201).

Holorusia rubiginosa Lw. (*grandis* Bergr.)

Departure Bay, July 5, 1913 (J. B. Kurata); Univ. Toronto Coll. Vancouver, July 28, 1931 (Leech); 1♀. U. Brit. Col., July 2, 1931 (Leech); 1♀.

Tipula (Cinctotipula) dorsolineata Doane

New Lake, Cranbrook, Aug. 26, 1919 (Garrett). Cranbrook, Aug. 5-Sept. 4, 4,000 ft. (Garrett).

Tipula accurata Alex. (Can. Ent. 59: 184-185, 1927)

Keremeos, June 26-July 15, Aug. 1-2, 1923 (Garrett).

Tipula californica (Doane, 1908) (as *Pachyrhina*)

Gordon Head, June 15, 1920 (W. Downes). Victoria, May 16 1916 (Treherne). Victoria, May 3, 1919 (W. B. Anderson). Victoria, June 28, May 5, 1919 (W. Downes).

- Tipula dorsimacula* Walk. (*angustipennis* Lw.)
Agassiz, May 8, 1926 (H. H. Ross). Cranbrook, May 12-20, 1933 (Garrett); May 8, June 16, Oliver, May 15, 1923 (Garrett). Douglas, June 6, 1922 (E. R. Buckell). Lillooet (A. Phair). Salmon Arm, April 29, 1931 (Leech).
- Tipula imbellis* Alex. (Can. Ent. 59: 186-187, 1927)
Osoyoos, May 18, 1923 (Garrett).
- Tipula leechi* Alex. mss.
Vancouver, July 11, 1930 (Leech); ♂ in poor shape.
- Tipula pubera* Lw.
Vancouver, July 7, 1931 (Leech); 1 ♂.
- Tipula retussa* Doane.
Gordon Head, June 14, 1919 (Downes) on strawberry.
- Tipula streptocera* Doane.
Nanaimo, July 1, 1925 (Spencer); 1 ♂.
Departure Bay, July 24, 1913 (E. M. Walker); Univ. Toronto Coll.
- Tipula trypetophora* Dietz.
Victoria, July 6, 1912 (type-locality). Vancouver, May 28, 1931; June 30, 1931; July 7-23, 1931 (Leech).
- Prionocera fuscipennis* Lw. (*Stygeropsis*)
Cranbrook, 4,000 ft., May 7-20, July 14 (Garrett).
- Nephrotoma altissima erythrophrys* (Will.) (*Pachyrrhina*)
Cranbrook, 3,500 ft., June 26 (Garrett).
Field, 4,800 ft., July 1, 1908 (J. C. Bradley). Carbonate, 2,600 ft., July 7-12, 1908 (Bradley).
- Nephrotoma excelsior* (Bergr.) (Wien. Ent. Zeitg. 7: 239)
Cascade Mountains (type-locality).
- Nephrotoma lineata* (Scop.) (Ibid. 7: 239)
Brit. Col. (Recorded by Bergroth); identity somewhat doubtful.
- Nephrotoma occidentalis* (Doane) (*Pachyrrhina*)
Vancouver, July 17-Aug. 21, 1931 (Leech), abundant.
- Sub-family CYLINDROTOMINAE
- Phalacrocer a vancouverensis* Alex. (Can. Ent. 59: 180-190, 1927)
Vancouver, April 10, 1922 (W. B. Anderson). Vancouver, Nov., 1929 (G. J. Spencer).
- Cylindrotoma splendens* Doane (*juncta* Coq.)
Westholme, May 10, 1918 (W. Downes). Victoria, May 28, 1917 (A. E. Cameron); reared. Vancouver, May 15, 1917 (Cameron). Mt. McLean, 6,000-7,200 ft., Lillooet, July 12, 1926 (McDunnough); Can. Nat. Coll.
- Sub-family LIMONIINAE
Tribe LIMONIINI
- Antocha* (*Antocha*) *monticola* Alex.
Seton Lake, Lillooet, May 28, 1926 (J. McDunnough); C.N. Coll.
- Ellyptera astigmatica* Alex. (Psyche. 19: 164-165, 1912)
Rogers Pass, July 30, 1908 (Bradley), Kookanee Mt., 8,000 ft., Aug. 10, 1903 (Currie). London Hill Mine, 7,000 ft., July 21, 1903 (Currie). Hector, July 15, 1928 (Owen Bryant).
- Dicranoptycha occidentalis* Alex.
Vancouver, June 30, July 20-29, Aug. 11-12, 1931 (Leech). Cranbrook (Garrett). (NOTE: This is the *D. sobrina* OS record in Garrett's East Kootenay List, Can. Ent. 52: 108, 1920.)
- Limonia* (*Limonia*) *bestigma* (Coq.) (Journ. N.Y. Ent. Soc. 13: 57, 1905)
Bear Lake, July 29, 1903 (Currie).
- Limonia* (*Limonia*) *californica* (OS)
Vancouver, Aug. 18, 1931; feeding on molasses moth-bait (Leech).
- Limonia* (*Limonia*) *concinna* (Will.)
Cranbrook, 3,500 ft., April 28, 1919 (Garrett).
- Limonia* (*Limonia*) *maculicosta* (Coq.) (Journ. N.Y. Ent. Soc. 13: 57, 1905)
Kookanee Mt., 8,000 ft., Aug. 10, 1903 Currie).
- Limonia* (*Limonia*) *nitidiuscula* Alex.
Vancouver, May 7, 1932 (Spencer); Aug. 11-14; Sept. 9-16, 1931 (Spencer).
- Limonia* (*Limonia*) *sciophila* (O.S.)
Smith Fork, Aug. 11, 1903 (Caudell). Kaslo, Aug. 16, 1903 (Caudell). Kookanee Mt., Aug. 10, 1903 (Caudell). Powder Is., July 25, 1905 (J. M. Aldrich). Victoria, June 20, 1917 (Cameron). Roger's Pass, Aug. 9, 1914 (J. C. Bradley). Hector, July 15, 1928 (O. Bryant). Duncan, Sept. 3, 1914; Aug. 9, 1914 (J. C. Bradley). Vancouver, Sept. 16-17, 1931; July 25; Aug. 11, 1931 (Leech).
- Limonia* (*Limonia*) *tripunctata* (Fabr.)
Recorded from Brit. Col. by Bergroth, Wien. Ent. Zeitg. 7: 239, 1888. Identity probably O.K.
- Limonia* (*Discobola*) *argus* (Say)
Kaslo, Aug. 20, 1903 (Caudell and Currie).
- Limonia* (*Geranomyia*) *canadensis* (Westwood)
Wasa, 6,000 ft. (Date, Coll. ?). Cranbrook, 6,000 ft. (Garrett).
- Limonia* (*Rhipidia*) *maculata* (Meig.)
Kaslo, Aug. 20, 1903 (Dyar and Caudell).
- Limonia* (*Dicranomyia*) *badia* (Walk.)
Seton Lake, Lillooet, June 3, 1926 (McDunnough); Can. Nat. Coll.
- Limonia* (*Dicranomyia*) *halterata* (OS)
Duncan, Vancouver Is., Sept. 3, 1913 (J. C. Bradley). Cranbrook, Sept. 26 (Garrett).
- Limonia* (*Dicranomyia*) *morioides* (OS)
Hector, July 15, 1928 (O. Bryant).
- Limonia* (*Dicranomyia*) *vulgata* (Bergr.)
Bear Lake, July 20, 1903 (Currie); as determined by Coquillett.
- Limonia* (*Alexandriaria*) *intermedia* (Garrett)
Cranbrook, July 6, 10, 15, 1920 (Garrett); types.
- Limonia* (*Alexandriaria*) *kooteniensis* (Garrett)
Cranbrook, July 15, 1920 (Garrett); type.
- Limonia* (*Alexandriaria*) *suffusca* (Garrett)
Cranbrook, 2,950 ft., Oct. 9, 1920 (Garrett); type.
- Tribe PEDICIINI
- Ornithodes harrimani* Coq.
Hector, July 15, 1928 (O. Bryant); (vide Bull. Brooklyn Ent. Soc. 26: 179-180, 1931).

- Pedicia (Pedicia) magnifica* (Hine) (as *Peditia*)
Port Renfrew, July 27, 1902 (R. C. Ozburn); type. Cypress Creek, Vancouver, Aug. 16, 1931 (Leech); 1 broken ♀.
- Pedicia (Pedicia) parvicellula* Alex. n. sp. mss.
Cypress Creek, Vancouver, Aug. 16, 1931 (Leech).
- Pedicia (Tricyphona) ampla* (Doane)
Duncan, Vancouver, Sept. 3, 1914 (J. C. Bradley). Revelstoke, Aug. 22 (H. G. Dyar). Vancouver, Aug. 2, 26, 1931; Sept. 10, 1931 (Leech).
- Pedicia (Tricyphona) aperta* (Coq.) (Journ. N.Y. Ent. Soc. 13: 59, 1905)
Kaslo, May 29, 1903; June 10, 1903 (Dyar); types. Hector, July 15, 1928 (O. Bryant).
- Pedicia (Tricyphona) constans* (Doane)
Vancouver, Aug. 4, 1931 (Leech); May 17, 1930 (Spencer). Departure Bay, May 22, 1925 (Spencer). Langley, April 16, 1931 (K. Graham). Duncan, Sept. 13, 1914 (J. C. Bradley).
- Pedicia (Tricyphona) protea* (Alex.)
Prince Rupert, June 17, 1919 (H. G. Dyar). Vancouver, May 7, 1932 (Spencer).
- Pedicia (Tricyphona) rubiginosa* Alex.
Hector, July 15, 1928 (O. Bryant); types.
- Pedicia (Tricyphona) vitripennis* (Doane)
Vancouver, April 16, 1931; May 4, 1931 (Leech); April 11-18, 1930, May 17, 1930 (Spencer). Campus, U. Brit. Col., Oct. 18, 1928 (M. H. Campbell). Lowe Inlet, June 3, 1897 (T. Kincaid); Coquillett Record.
- Dicranota (Dicranota) montana* (Alex.)
Salmon Arm, April 29, 1931 (Leech). Hector, July 15, 1928 (O. Bryant).
- Dicranota (Rhaphidolabis) neomexicana* (Alex.)
Cranbrook, 3,500 ft., July 21 (Garrett).
- Dicranota (Rhaphidolabis) subsessilis* (Alex.)
Hector, July 15, 1928 (O. Bryant).
- Polyangaenus maculatus* Doane
Alta Lake, Mons, June 11, 1926 (McDunnough); Can. Nat. Coll.

Tribe HEXATOMINI

- Adelphomyia* sp., near *americana* Alex.
Cypress Creek, Vancouver, Aug. 16, 1931 (Leech); 1 ♀ only, ♂♂ greatly needed.
- Epiphragma (Epiphragma) picta* (Fabr.)
Recorded from Brit. Col. by Bergroth (Vien. Ent. Zeitg. 7: 239, 1888). It is probable that the identity is O.K.
- Pseudolimnophila badia* (Doane)
Kaslo, June 11, 1903 (Dyar).
- Archilimnophila subunica* (Alex.)
Grouse Mt., Vancouver, 4,000 ft., June 14, 1931 (Leech).
- Dactylolabis hortensia* Alex. (Proc. Acad. N.S. Phila. 1914: 591-592, 1914)
London Hill Mine, Bear Lake, 7,000 ft., July 29, 1903 (Caudell); types.
- Dactylolabis pteropocila* (Alex.)
Seymour Creek, Vancouver, May 12, 1931 (Leech).
- Phyllolabis bryantiana* Alex.
Hector, July 15, 1928 (O. Bryant); types.
- Limnophila (Prionolabis) cressoni* Alex.
Prince Rupert, June 17, 1919 (H. G. Dyar).
- Limnophila (Phylidorea) columbiana* Alex.
(Proc. U.S. Nat. Mus. 72, art. 2; 12-13, 1927)
Prince Rupert, June 17, 1919 (Dyar); type.
- Limnophila (Phylidorea) flavipila* Doane
Vancouver, May 4, 1931 (Leech). Hollyburn Ridge, Vancouver, 3,000 ft., June 28, 1931 (Leech).
- Limnophila (Phylidorea) fuscovenosa* Alex.
(Can. Ent. 59: 190-191, 1927) Revelstoke, 5000-6000 ft., July 20-21, 1926 (McDunnough); type.
- Limnophila antennata* Coq.
Kaslo, Jun. 11-22, 1903; July 11, 1903 (Currie & Dyer); types.

Tribe ERIOPTERINI

- Chionea alexandriana* Garrett
Cranbrook, Feb. 22, 1921, 3500 ft.; Feb. 13, 1920 (Garrett). Canal Flats, Kootenay Valley, March, 1921; types.
- Cladura (Cladura) oregona* Alex.
Vancouver, Sept. 16-Oct. 6, 1931 (Leech). Langley Prairie, Nov. 2, 1931 (K. Graham).
- Pterochionea bradleyi* Alex. (Proc. Acad. Nat. Sci. Phila. 1916: 530-531) Roger's Pass, Aug. 9, 1915 (JC Bradley); type.
- Neolimnophila ultima* (OS)
Cranbrook, 3500 ft., Oct. 20 (Garrett).
- Gonomyia (Ptilostena) californica* Alex. (Can. Ent. 1916: 324-325)
Peachland, May 19, 1912; June 24, 1903. (The B. Col. record of *G. blanda*—Proc. Acad. N.S. Phila, 1914: 586-587—pertains to *californica*.)
- Rhaddomastix (Sacandaga) monticola* Alex. (Proc. Acad. N.S. Phila. 1916: 528-529, 1916)
Kokanee Mt., 8000 ft., Aug. 11, 1903 (Currie); type.
- Rhaddomastix (Sacandaga) subcaudata* Alex.
Hector, July 15, 1928 (O. Bryant).
- Erioptera (Psilocoenopa) aperta* (Coq.) (Journ. N.Y. Ent. Soc. 13: 59, 1905) as *Gnophomyia*.
Kaslo, July 11 and 18, 1903; types.
- Helobia hybrida* (Mg.)
Cranbrook, May 2, 1919 (Garrett).
- Ormosia divergens* (Coq.) (Journ. N.Y. Ent. Soc. 13: 57-58, 1905).
Kaslo, Jun. 18 and 29, 1903 (Currie). London Hill Mine, Bear Lake, 7000 ft., Jul. 21, 1903 (Caudell). Kokanee Mt., 9,000 ft. on snow, Aug. 10, 1903 (Currie).
- Ormosia subcornuta* Alex.
Langley, March 22, 1931 (K. Graham).
- Molophilus colonus* Bergr.
Hector, July 15, 1928 (O. Bryant).
- Molophilus falcatus* Bergr.
Prince Rupert, June 17, 1919 (Dyar & Aldrich).